NUX

MG-200

GUITAR MODELING PROCESSOR

Thank you for purchasing the NUX MG-200 Guitar Multi-Effects Processor!

MG-200 is the latest portable guitar multi-effects processor from NUX. Its compact size fits in most guitar bags! With the enhanced controls and loads of new sounds by NUX original TSAC Technology, MG-200 is very handy for live performance and practice!

★★★★★

What is TSAC?

TSAC
TRUE SIMULATION OF ANALOG CIRCUIT

TSAC(True Simulation of Analog Circuit) Since 1950's , musician have been using analog devices to creat their works. Musicians love the tone of their vintage instruments! The audio signal goes through various electronic components, such as resistors, capacitors, transistors and tubes. All these components affect each other to create the result-TONE! TSAC Technology virtually re-constructs the real analog circuits by using DSP chips, and accurately emulates the tone and feel of the vintage instruments!

Features

- Color TFT LCD.
- Built-in Drum Machine and Looper.
- Built-in Tuner.
- Easy to Turn On/Off Any Effects Section.
- USB for System Updating.
- Various Output Modes.
- Built-in CTRL 1 Footswitch and Extensional CTRL2 Pedal Jack.
- A Total of 55 Models.
- 36 Factory Preset and 36 User Preset.
- Various Output Modes.
- Powered by Adaptor or 6 AA Batteries.

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Accuracy
Whilst every effort has been made to ensure the accuracy and content of this manual, Cherub Technology Co. makes no representations or warranties regarding the contents.

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Owner's Manual

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WARNING!-IMPORTANT SAFETY INSTRUCTIONS
BEFORE CONNECTING, READ INSTRUCTIONS

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: To reduce the risk of fire or electric shock, do not remove screws. No user-serviceable parts inside. Refer servicing to qualified service personnel.

CAUTION: This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

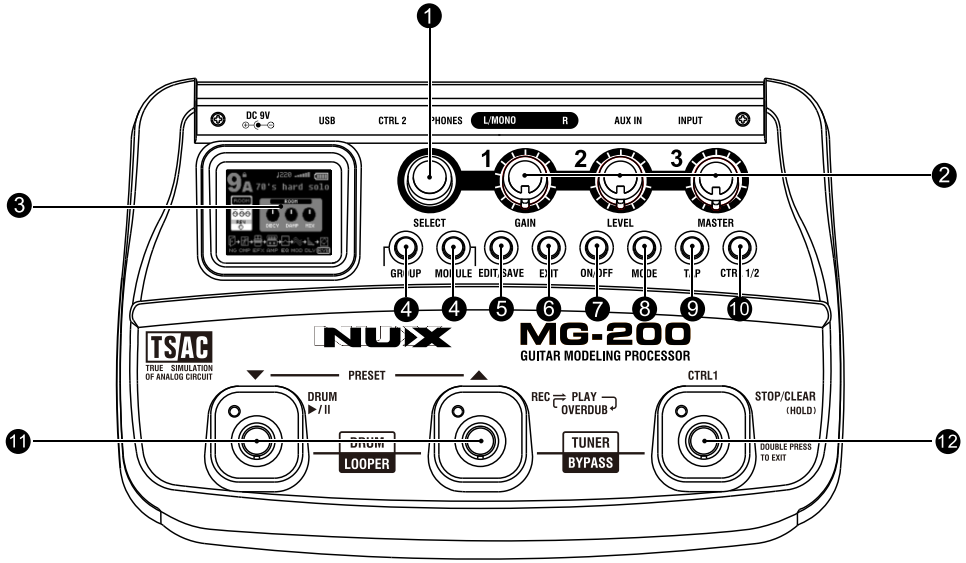
The lightning symbol within a triangle means "electrical caution!" It indicates the presence of information about operating voltage and potential risks of electrical shock.

The exclamation point within a triangle means "caution!" Please read the information next to all caution signs.

1. Use only the supplied power supply or power cord. Using other power supply may cause noise or even damage!
2. Do not place near heat sources, such as radiators, heat registers, or appliances which produce heat.
3. Guard against objects or liquids entering the enclosure.
4. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
5. Refer all servicing to qualified service personnel.
   Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
6. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and at the point where they exit from the apparatus.
8. Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening".

Follow all instructions and heed all warnings
KEEP THESE INSTRUCTIONS!

Front Panel Description



1.SELECT knob
Select effects, pages of presets, etc.

2.PARAMETER knobs
Use these knobs to set parameters of effects.
Under Preset Mode, these controls GAIN, LEVEL and MASTER Volume of the amp model (Amp Module must be turned on.)

3.DISPLAY
It displays presets, effect control panels, drum & looper interface, and other setting pages.

4.GROUP buttons
Use these two buttons to quickly switch bank number under Preset Mode. Under Edit Mode, use these buttons to switch effects modules.

5.EDIT/SAVE button
Press this button to enter Edit Mode and save presets.

6.EXIT button
Press this button anytime to return to Preset Mode.

7.ON/OFF button
Under Edit Mode, you can select any effects module and press ON/OFF button to turn on/off this module quickly.

8.MODE button
Press this any time to choose the device that you want to output the sound of MG-200 to. Choosing the right output mode helps to get better tone.

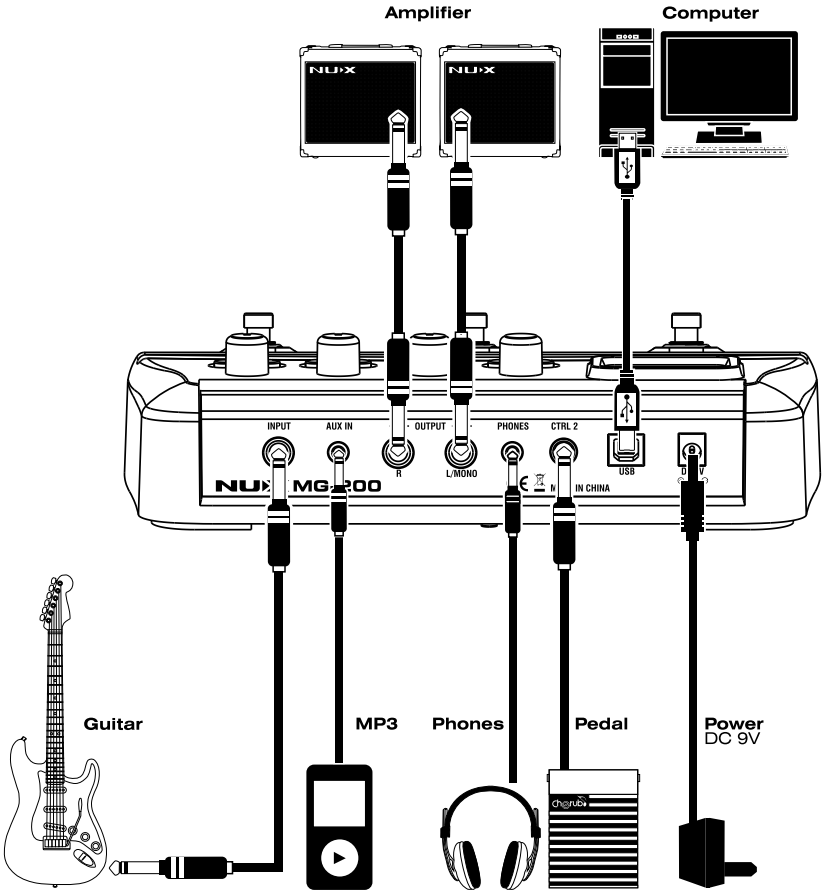
9.TAP button
Use this button to tap in the speed of modulation effects, delay, and drum tempo.

10.CTRL1/2 knob
Press this button to set the function of the built-in CTRL1 footswitch and the extensional CTRL2.

11.PRESET footswitches
Use these two switches to switch presets. Press both switches simultaneously to enter drum & looper interface.

12.CTRL 1 footswitch
This is a control pedal that can be set as switch for effects On/Off, volume boost, or TAP tempo pedal.

Connection Panel Description



INPUT jack
Connect your guitar here. This also acts as power switch when the MG-200 is powered by batteries: plug in a guitar cable to the INPUT jack to turn on the power; Unplug the cable from the INPUT jack to turn off the power.

AUX IN jack
Plug in your music player or drum machine here. The sound will be played through MG-200's outputs.

OUTPUT R & L /MONO jacks
These are the main outputs that can be connected to amplifiers or mixer. Connect two amplifiers or for stereo effects. Use only the L /MONO for mono effects.

PHONES jack
This is a stereo jack for headphones.

CTRL 2 jack
You can plug an optional double-pedal to this jack to switch preset groups, or an expression pedal to use Wah, Wahmmy or control modulation speed.

USB jack
This is for system updating.

DC jack
Plug the supplied Power Adaptor in this jack.

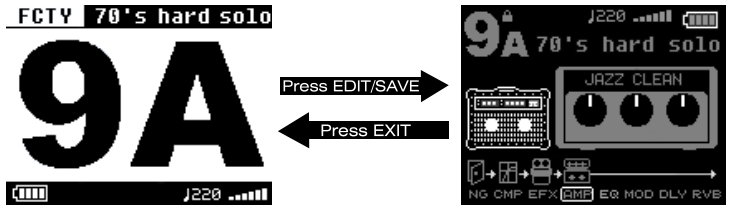
NOTE: Use ONLY the supplied adaptor or optional NUX ACD-008 Adaptor. Using other adaptor may cause noise or damage!

Preset Mode & Edit Mode

The default mode when you turn on the power of MG-200 is Preset Mode.

Press **EDIT/SAVE** button enters Edit Mode. You can edit tones and save as user presets.

Press **EXIT** button any time will return to Preset Mode.



PRESET MODE EDIT MODE

To Create Tones

●Enter Edit Mode and Edit Effect Modules

Press **EDIT/SAVE** to enter Edit Mode. You will see the signal chain on the bottom of the display:

Press **GROUP/MODULE** arrow buttons to select which effect module you want to edit. Tweak **SELECT** knob to choose effects under chosen effect module. Use **PARAMETER** knobs to set parameters of effects.

Press **ON/OFF** button can quickly turn on/off the chosen effect module. Turning it off means this module is bypassed and disappears from the signal chain on the bottom of the display.

●CTRL1/2 Pedal Function Setting

MG-200 has a built-in **CTRL1** control pedal and an **CTRL2** extensional pedal jack*. These will give you superb control on stage!

Press the **CTRL1/2** button to enter pedal setting page.

Use **SELECT** knob and **PARAMETER 1** knob to select and set the function.

CTRL 1 Functions List	
1.SWITCH	Set the CTRL1 as a footswitch to switch On/Off one of these effect modules. Use Parameter 1 knob to choose:COMP SW, EFX SW, AMP SW, EQ SW, MOD SW, DELAY SW, REVERB SW. * The CTRL1 footswitch is smartly designed to recognize if you want it to be a latched switch or momentary switch.
2.TAP	Set the CTRL1 as a TAP Tempo pedal to set MOD speed or Delay time.
3.SOLO BOOST	Set the CTRL1 as a solo boost switch. You can use Parameter 1 knob to set the amount you want to boost the master volume when you switch on the CTRL1.
4.DELAY + BOOST	Use the CTRL 1 to switch on the delay effect and boost the master volume at the same time. Boost amount can be set by Parameter 1 knob.

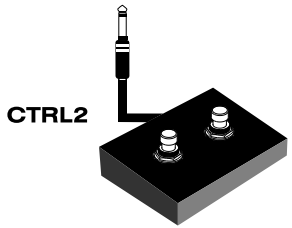
When you finish setting the pedal function, press **EDIT/SAVE** button to return to effect module setting page (Edit Mode).

*Using CTRL2 Jack

MG-200 offers a CTRL2 jack that allows you to use an optional double-pedal to switch groups, or expression pedal to control effects. When you plug in a pedal to the CTRL2 jack, MG-200 will automatically recognize whether it is a double-pedal or a expression pedal.

1.Use CTRL2 as Group Switch

When a double-pedal is plugged into CTRL2 and works as a group switch, the two switches will function the same as GROUP buttons under Preset Mode.



2.Use CTRL2 as Expression Pedal

If you plug in an optional expression pedal, you should long press the CTRL1/2 button for 3 seconds for the first time to enter the expression pedal setting page . You can adjust the pedal following the instruction and then save it. The expression pedal can be used as volume control, wah pedal, wahmmy pedal, or parameter control by following below steps:

- Press the **CTRL1/2** button to enter **CTRL2** setting page.
- Use **SELECT** knob and **PARAMETER 1** knob to select and set the function.

Expression Pedal Functions List	
1.WAH STANDARD	Set the expression pedal to be a standard Wah pedal.
2.WAHMMY	Set the expression pedal to have pitch bending effect.
3.PARAMETER	Set the expression pedal to control these parameters: EPX DRIVE, AMP DRIVE, MOD RATE, DELAY TIME, REVERB DEPTH
4.VOLUME	Set the expression pedal as a volume pedal to control master output volume.

CTRL1 and **CTRL2** (expression pedal) settings can be saved to presets.

Under Preset Mode, you can also temporary change **CTRL1/2** functions easily.

●To Save User Presets

Once you find the tone you like, you can save it as a user preset.

- Press and hold **EDIT/SAVE** button to enter Name Editing page.
- Press **PRESET▼▲**footswitches to choose the memory location that you want to save to.
- Use **GROUP** arrows to select the letter you want to edit, and use **SELECT** knob to choose letters/numbers.
- Press **EDIT/SAVE** to confirm saving, or press **EXIT** to abandon changes.

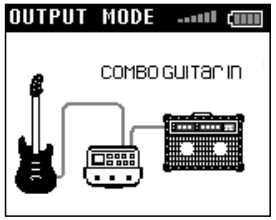
●To Use Presets

Under Preset Mode, You can choose presets by stomping on the PRESET▼▲footswitches, or tweaking the **SELECT** knob. Press the **GROUP** buttons or use an optional extension pedal can change groups quickly.

Output Modes

You can output the sound from MG-200 to a variety of devices by selecting output modes. Using the right output mode helps you get the best tone from MG-200.

Press **MODE** button, and use **SELECT** knob to select the device you want to output the sound of MG-200.

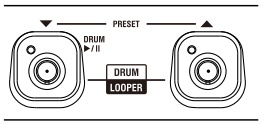


Stack Guitar In	Choose this one when you plug the MG-200 to the Guitar Input of a stack.
Stack Power	Choose this one when you plug the MG-200 to the power amp of a stack. (Normally the RETURN of the FX Loop)
Combo Guitar In	Choose this one when you plug the MG-200 to the Guitar Input of a combo.
Combo Power	Choose this one when you plug the MG-200 to the power amp of a stack. (Normally the RETURN of the FX Loop)
Headphone	Output the sound from MG-200 to a headphone. MG-200's speaker simulator will be turned on.

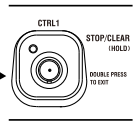
NOTE: Output modes can be changed at anytime. Selecting the output is a universal setting that is not saved in presets.

Drum & Looper

MG-200 has a built-in Drum Machine that has 81 rhythm patterns and a Looper with 70 sec recording time.



Stomp on both PRESET switches at the same time to enter the Drum & Looper page.



Double press the CTRL 1 switch to exit.

●Drum Machine

Control	Function	Control	Function
SELECT	To change tempo	2	To adjust drum volume
GROUP MODULE	To change drum styles	DRUM ▶/II	Start and stop drum
1	To change patterns	CTRL1 DOUBLE PRESS TO EXIT	Double-press to exit

●Looper

Control	Function
3	Adjust the playback volume of a loop
REC PLAY OVERDUB	Press this to Record, Play, and Overdub;
CTRL1 STOP/CLEAR (HOLD)	Press once to Stop the loop; Press and hold to clear all recording; Double - press to exit (quickly press the CTRL switch twice in one second).

During looping, you are free to exit to Preset Mode or Edit Mode by double-press the **CTRL1** footswitch, change the guitar tone, and return to the Drum & Looper page to continue looping.

NOTE: You can use the drum patterns to guide your recording, but the Drum Machine and Looper are separate modules so the drum part cannot be recorded in the Looper.

Tuner

MG-200 has a built-in chromatic tuner. Press the **PRESET** ▲ footswitch and **CTRL1** footswitch at the same time to enter tuner page. Use **SELECT** to set A4 value (435Hz – 445Hz).

In Tuner page, press **PRESET** ▲ footswitch for silent tuning. Quickly press **CTRL1** footswitch twice in 1 second to exit.

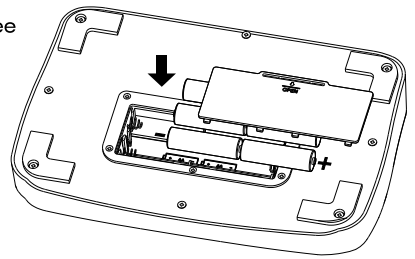
Factory Restore

- Press **EDIT/SAVE** button and **EXIT** button at the same time to enter SYSTEM MENU page.
- Use **GROUP** buttons to select FACTORY, and press **EDIT/SAVE** button to enter.
- Press one of the **GROUP** buttons to toggle to **YES**.
- Press **EDIT/SAVE** to confirm restoring and exit, or press **EXIT** to exit without restoring.

NOTE: All user presets and settings will be restored to factory settings.

Installing Batteries & Battery Selection

You can use 6 AA batteries to power the MG-200. See the picture for battery installation.



NOTE:
- Pay attention to polarity when replacing batteries.
- Remove the batteries if the product will not be used for a long period.

When powered by batteries, MG-200 allows you to select battery types for the best performance. Follow below steps:

- Press **EDIT/SAVE** button and **EXIT** button at the same time to enter SYSTEM MENU page.
- Use **GROUP** buttons to select BATTERY, and press **EDIT/SAVE** button to enter.
- Press one of the **GROUP** buttons to toggle to **ALKALINE** or **NIMH**.
- Press **EDIT/SAVE** to confirm restoring and exit, or press **EXIT** to exit without restoring.

Specifications

- Sampling Frequency: 44.1KHz
- A/D Converter: 24bit
- Frequency Response: 20Hz-20000Hz ±1dB
- THD+N: -93dBu(<0.003%)
- Dynamic Range: 110dB
- Input: -20dB
- Output: -10dB
- Power: DC 9V ⊖-⊕-⊖
- Dimensions: 240(L)x155(W)x67(H)mm
- Weight: 0.95Kg

Precautions

- Environment:
  1.Do NOT use MG-200 in high temperature, high humidity, or subzero environments.
  2.Do NOT use MG-200 in the direct sunlight.
- Please do NOT disassemble MG-200 by yourself.
- Please keep this manual for future reference.

Accessories

- Owner's manual
- DC 9V

*Specifications may change without notice.

NUX MG-200 EFFECTS LIST

MODULE	NAME	MODEL	KNOB 1	KNOB 1	KNOB 1
NOISE GATE	NOISE GATE	NUX NOISE GATE	THRESHOLD	DAMP	
COMPRESSOR	DYNA COMP	MXR DYNA COMP	SENSITIVITY	ATTACK	OUTPUT
EFX	AUTO WAH	NUX AUTO WAH	WAH TYPES	RATE	WAH SHAPE
	TOUCH WAH	NUX TOUCH WAH	WAH TYPES	DECAY	SENSITIVITY
	UNIVBE	DUNLOP UNI-VIBE	RATE	DEPTH	VIBRATO/CHORUS
	TREMOLO	NUX TREMOLO	RATE	DEPTH	VOLUME
	PHASER	NUX PHASER	RATE	DEPTH	FEEDBACK
	BOOSTER	NUX BOOSTER	FREQUENCY	TONE	OUTPUT
	OVERDRIVE	IBANEZ TUBE SCREAMER	GAIN	TONE	OUTPUT
	DISTORTION	BOSS DS-1	GAIN	TONE	OUTPUT
	DIST	MXR DISRORTION+	GAIN	TONE	OUTPUT
	MODERNDIST	PROCO RAT	GAIN	TONE	OUTPUT
	FUZZ	DUNLOP FUZZ FACE	GAIN	TONE	OUTPUT
PREAMP	JAZZ CLEAN	ROLAND JAZZ 120	GAIN	PRESENCE	VOLUME
	BLACK FACE	FENDER DELUXE REVERB	GAIN	PRESENCE	VOLUME
	TWEEDY	FENDER TWEED DELUXE	GAIN	PRESENCE	VOLUME
	US BLUES	FENDER BASSMAN 59	GAIN	PRESENCE	VOLUME
	CLASS 30A	VOX AC30 TOP BOOST	GAIN	PRESENCE	VOLUME
	PLEXI FACE	MARSHALL SUPER LEAD 1959	GAIN	PRESENCE	VOLUME
	LEAD 100	MARSHALL SUPER LEAD 100W	GAIN	PRESENCE	VOLUME
	80S 800	MARSHALL JCM800	GAIN	PRESENCE	VOLUME
	MODERN AGE	SOLDANO SLO100	GAIN	PRESENCE	VOLUME
	NEW METAL	MESA BOOGIE DUAL RECITIFIER	DRIVE	LEVEL	CABINET
	CRUNCH IV	MESA BOOGIE MARK IV	DRIVE	LEVEL	CABINET
	SS WEAPON	NUX SOLID STATE METAL AMP	DRIVE	LEVEL	CABINET
	DEATH ZONE	NUX HEAVY METAL TONE	DRIVE	LEVEL	CABINET
CABINET		DIRECT OUT			
	JAZZ 2X12	ROLAND® JC-120	BASS	MID	HIGH
	BLACK 1X12	FENDER® DELUXE REVERB	BASS	MID	HIGH
	TWEED 1X12	FENDER® TWEED DELUXE	BASS	MID	HIGH
	BSMAN 4X10	FENDER® BASSMAN®	BASS	MID	HIGH
	TWIN 2X12	FENDER® TWIN REVERB	BASS	MID	HIGH
	BLUE 2X12	VOX® AC-30	BASS	MID	HIGH
	GREEN 4X12	MARSHALL® WITH 25W GREENBACK	BASS	MID	HIGH
	V30 4X12	MARSHALL® WITH V-30	BASS	MID	HIGH
	T75 4X12	MARSHALL® WITH T-75	BASS	MID	HIGH
	RECT 4X12	MESA BOOGIE® 4X12	BASS	MID	HIGH
	CALI 1X12	BOOGIE® 1X12	BASS	MID	HIGH
EQ	GRAPHIC EQ		100	200	400
			800	1.6K	3.2K
MODULATION	CHORUS	BOSS CE-5	RATE	DEPTH	MIX
	ST. CHORUS	STEREO CHORUS	RATE	DEPTH	MIX
	FLANGER	BOSS BF-2	RATE	DEPTH	RESONANCE
	VIBRATO	NUX VIBRATO	RATE	DEPTH	
	ST TREM	NUX STEREO TREMOLO	RATE	WIDE	VOLUME
	ROTARY SPK	NUX ROTARY SPEAKER SIMULATOR	RATE	BALANCE	DEPTH
	VIBROPAN	NUX PANNING VIBRATO	RATE	DEPTH	PAN

MODULE	NAME	MODEL	KNOB 1	KNOB 1	KNOB 1
MODULATION	DETUNE	NUX DETUNER	SHIFT	MIX	
	PITCHSHIFT	DIGITECH WHAMMY	INTERVAL	BALANCE	PAN
	HARMONIST	NUX HARMONIST	KEY	INTERVAL	MIX
DELAY	ANALOG DLY	NUX ANALOG DELAY	TIME	REPEAT	MIX
	DIGI DELAY	NUX DIGITAL DELAY	TIME	REPEAT	MIX
	TAPE ECHO	ROLAND RE-201	TIME	REPEAT	MIX
	STEREO DLY	NUX STEREO DELAY	TIME	REPEAT	MIX
	PING PONG	NUX PING PONG DELAY	TIME	REPEAT	MIX
	REVERSE	NUX REVERSE DELAY	TIME	REPEAT	MIX
REVERB	ROOM	NUX ROOM REVERB	DECAY	DAMP	MIX
	HALL	NUX HALL REVERB	DECAY	DAMP	MIX
	PLATE	NUX PLATE REVERB	DECAY	DAMP	MIX
EXP. PEDAL	WAH STANDARD	DUNLOP CRY BABY			
	WHAMMY	DIGITECH WHAMMY	+1/-1 OCTAVE		
	PARAMETER		TYPE		
	VOLUME				

THE FCC REGULATION WARNING (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CE mark for European Harmonized Standards

CE Mark which is attached to our company's products of Battery mains the product is in fully conformity with the harmonized standard(s) EN 61000-6-3:2007+A1:2011 & EN 61000-6-1:2007 Under the Council Directive 2004/108/ EC on Electromagnetic Compatibility.

RoHS

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Made in China